

=> d his

(FILE 'HOME' ENTERED AT 17:58:32 ON 30 MAY 2009)

FILE 'REGISTRY' ENTERED AT 17:58:56 ON 30 MAY 2009

L1 STRUCTURE uploaded

L2 2 S L1

L3 26 S L1 FULL

=> s l3 and caplus/lc

66606269 CAPLUS/LC

L4 23 L3 AND CAPLUS/LC

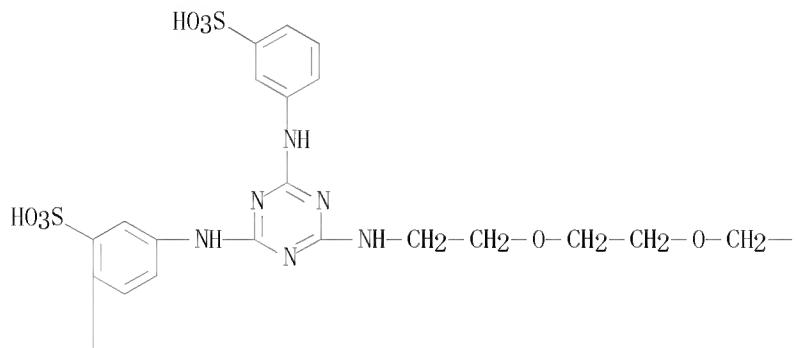
=> s l3 not l4

L5 3 L3 NOT L4

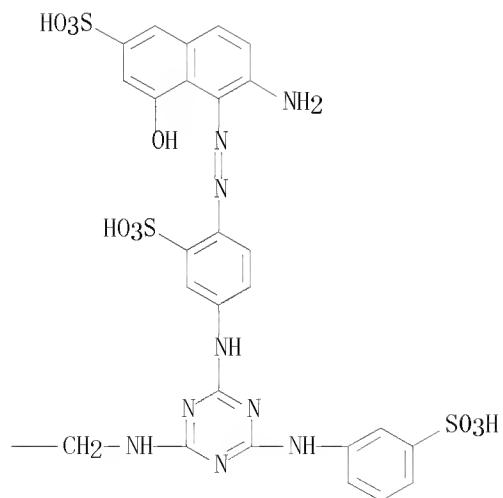
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L5 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
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 ED Entered STN: 07 Dec 2004
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 2,1-ethanediyl)imino[6-[(3-sulfophenyl)amino]-1,3,5-triazine-4,2-
 diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA
 INDEX NAME)
 MF C59 H58 N18 O22 S6
 CI IDS, COM
 SR CA

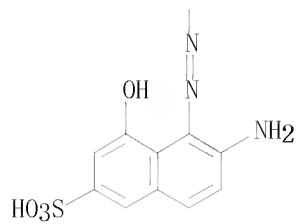
PAGE 1-A



PAGE 1-B



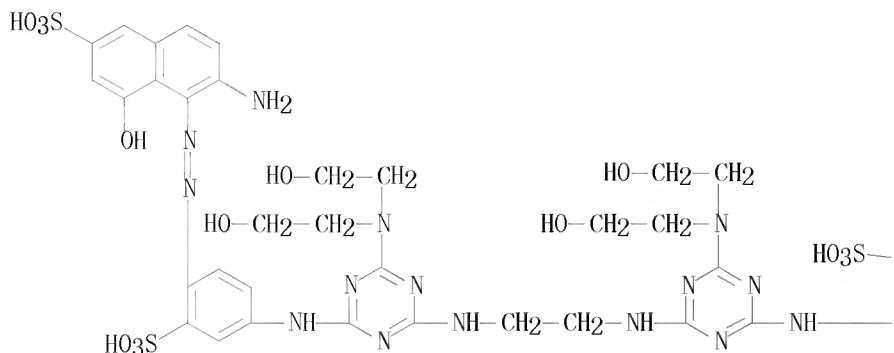
PAGE 2-A



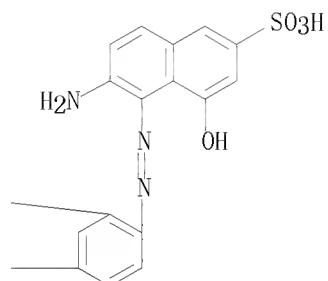
3 (D1-Me)

L5 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 702635-23-2 REGISTRY
 ED Entered STN: 02 Jul 2004
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 MF C48 H52 N18 O18 S4
 CI COM
 SR CA

PAGE 1-A



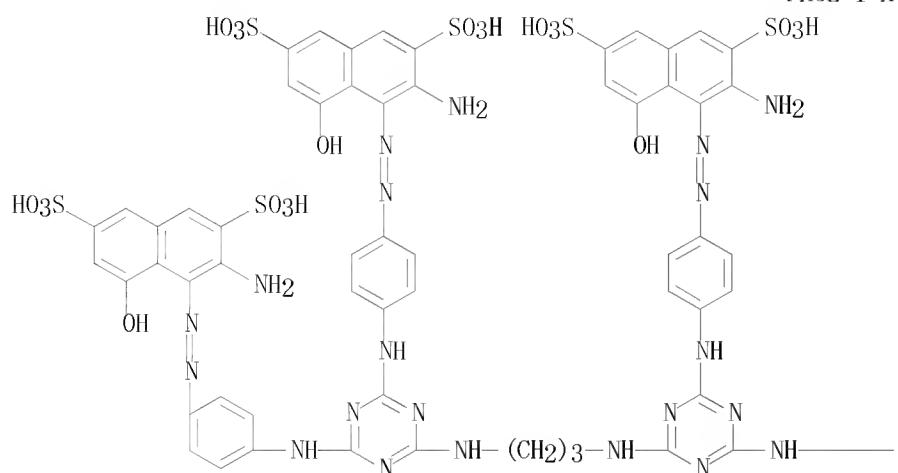
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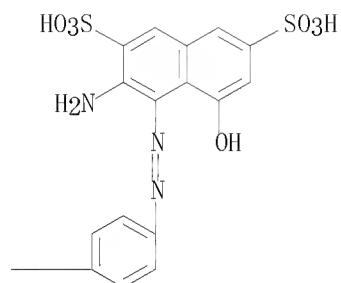
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 174571-96-1 REGISTRY
 ED Entered STN: 27 Mar 1996
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 1, 3, 5-triazine-6, 2, 4-triylbis(imino-4, 1-phenyleneazo)]]tetrakis[3-amino-5-
 hydroxy- (9CI) (CA INDEX NAME)
 MF C73 H60 N24 028 S8
 CI COM
 SR CA

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil capl
FILE 'CAPLUS' ENTERED AT 18:01:30 ON 30 MAY 2009
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 30 May 2009 VOL 150 ISS 23
FILE LAST UPDATED: 29 May 2009 (20090529/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 13
L6 6 L3
=> d 1-6 bib abs hitstr

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:283546 CAPLUS
 DN 142:337769
 TI Disazo dyes comprising [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing
 IN Gisler, Markus
 PA Clariant International Ltd, Switz.
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	CA 2535314	A1	20050331	CA 2004-2535314	20040923
	EP 1675912	A1	20060705	EP 2004-769467	20040923
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, 1E, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
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	BR 2004014624	A	20061107	BR 2004-14624	20040923
	JP 2007505965	T	20070315	JP 2006-526734	20040923
	ZA 2006001395	A	20070425	ZA 2006-1395	20060216
	MX 2006003018	A	20060623	MX 2006-3018	20060316
	KR 2006126451	A	20061207	KR 2006-705671	20060322
	IN 2006CN00981	A	20070615	IN 2006-CN981	20060322
	US 20080233289	A1	20080925	US 2006-573015	20060322
PRA1	EP 2003-21448	A	20030923		
	WO 2004-IB3107	W	20040923		
OS	MARPAT 142:337769				
G1					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A dyestuff according to formula (1) or a salt thereof, wherein B and B' are each independently -SO3H, -COOH, substituted alkoxy, substituted alkyl, un-substituted alkoxy, un-substituted alkyl, or -PO3H2; Q is an organic aliphatic linking group, which is either a un-substituted or substituted alkyl group which is not interrupted by any hetero atom or a un-substituted or substituted alkyl ether group comprising one oxygen atom or is a un-substituted or substituted alkyl polyamine group comprising one or two or more nitrogen atoms; R, R', R'', and R''' are each independently H or un-substituted or substituted alkyl; are each independently a labile atom or group. The dyestuffs are useful for dyeing or printing nitrogen-containing or hydroxy-group-containing organic substrates (e.g., cotton fabrics) and for the production of (ink-jet) printing inks.

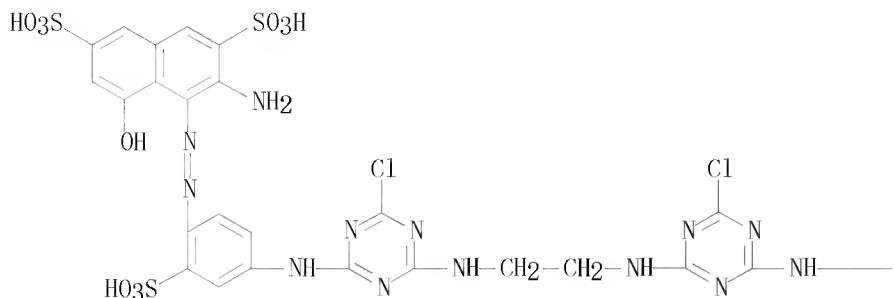
IT 847687-81-4P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (bluish-red dye; production of disazo dyes containing [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing)

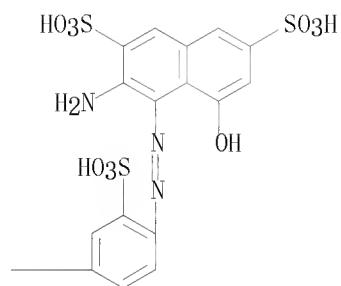
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PAGE 1-A



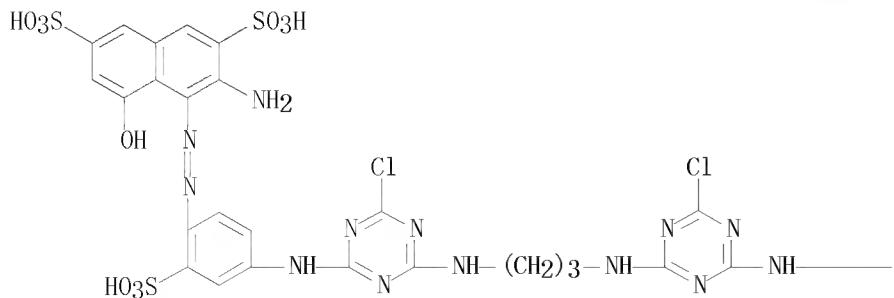
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IT 848421-08-9P 848421-09-0P 848421-10-3P
848421-11-4P 848421-12-5P 848421-14-7P
848421-16-9P 848421-18-1P 848421-20-5P
848421-22-7P 848421-24-9PRL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(production of disazo dyes containing [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing)

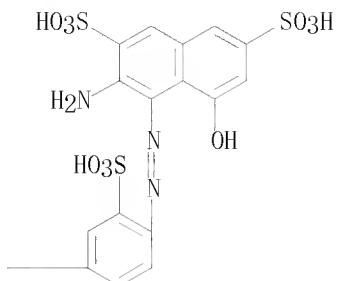
RN 848421-08-9 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



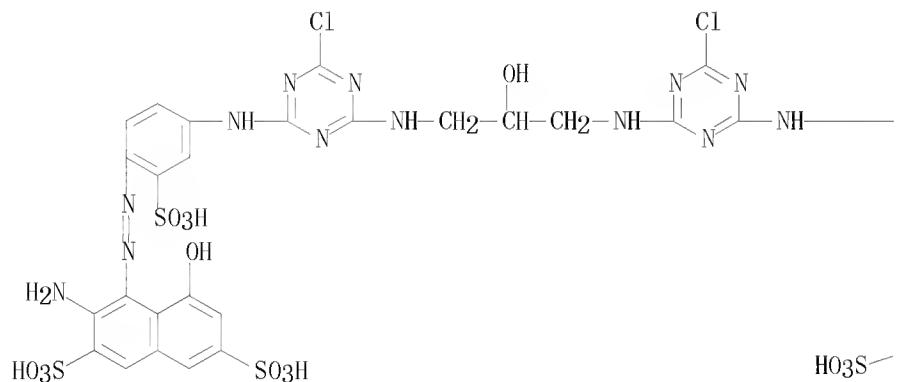
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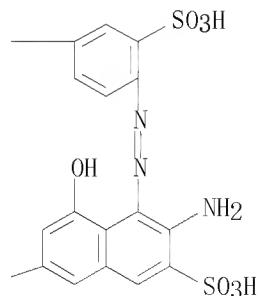
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PAGE 1-A



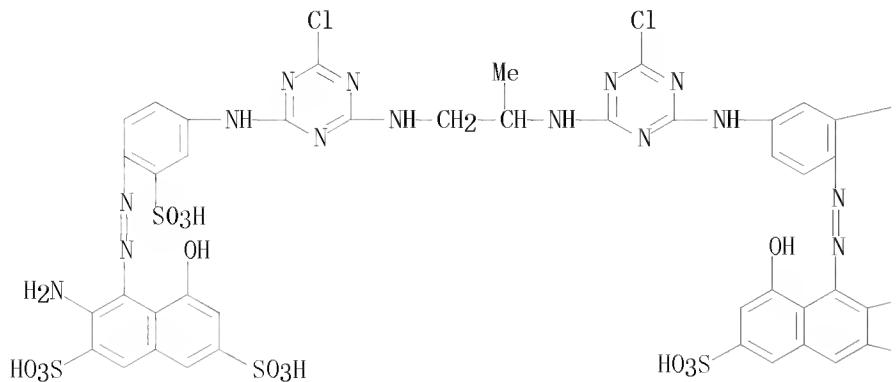
PAGE 1-B



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PAGE 1-A

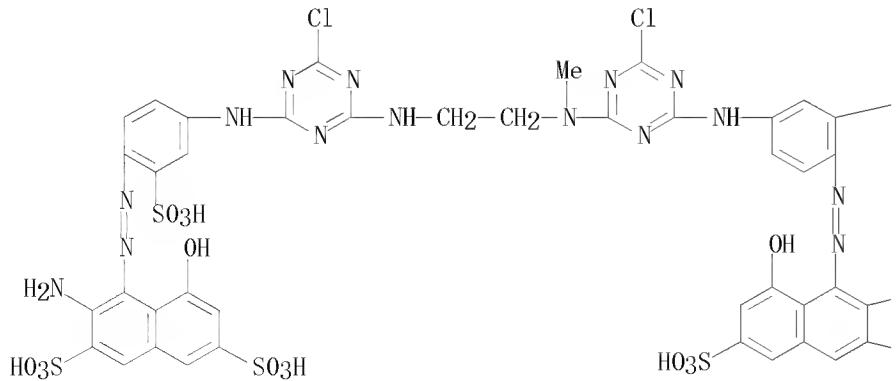


PAGE 1-B

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PAGE 1-A

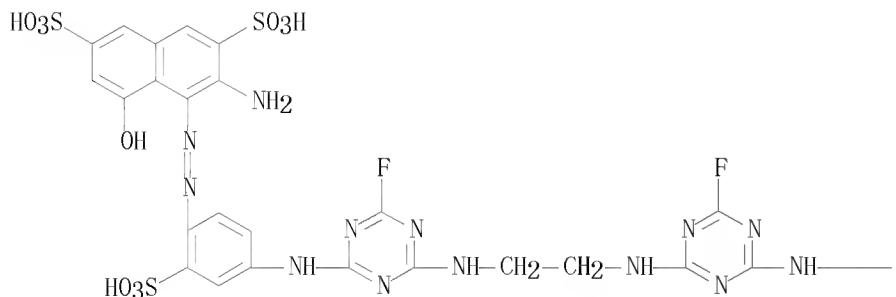


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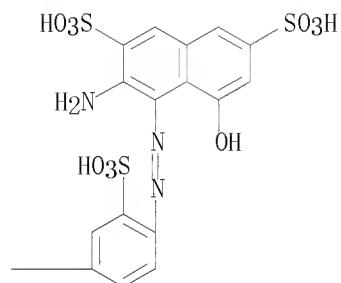
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PAGE 1-A

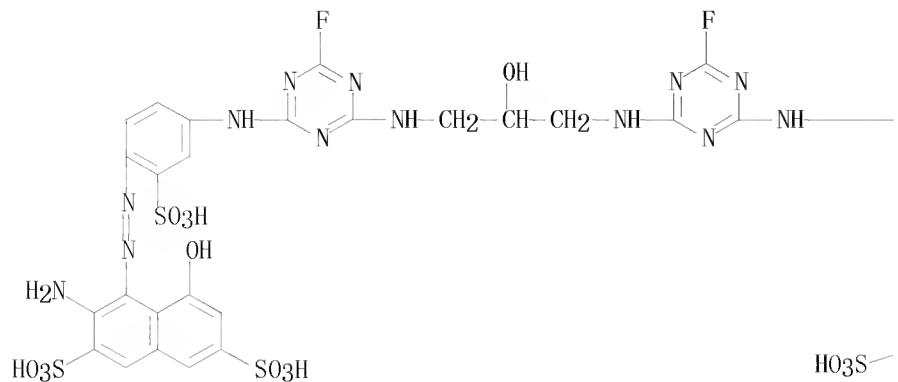


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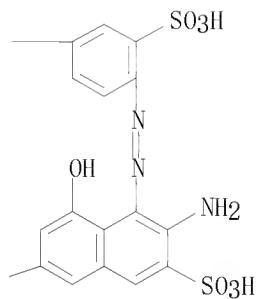


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PAGE 1-A



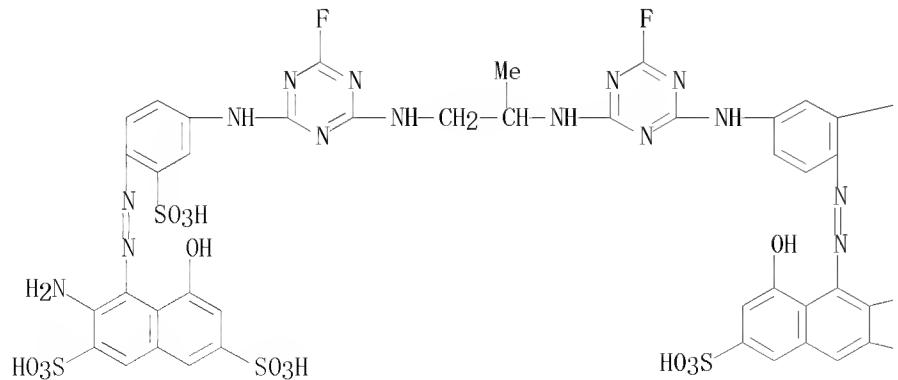
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PAGE 1-A

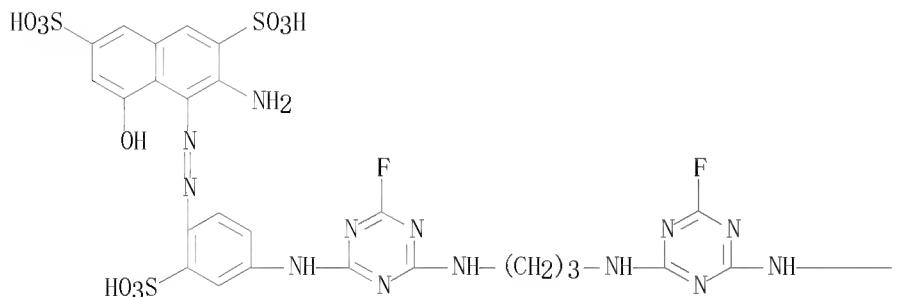


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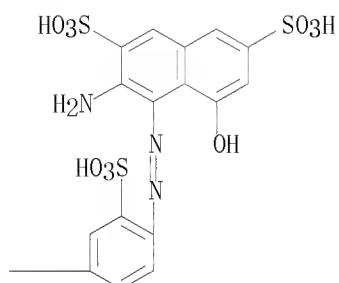
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PAGE 1-A

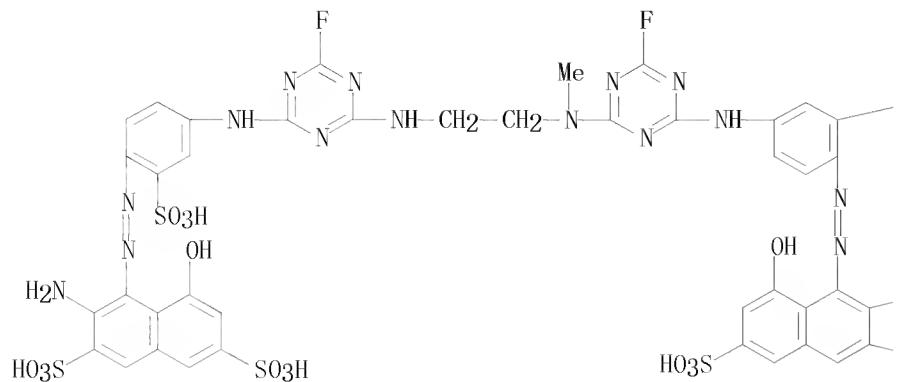


PAGE 1-B



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PAGE 1-A

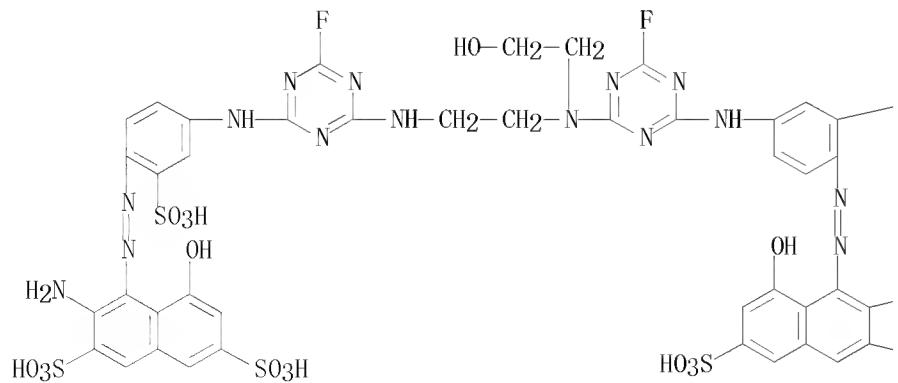


PAGE 1-B

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RN 848421-22-7 CAPLUS
 CN 2, 7-Naphthalenedisulfonic acid, 3-amino-4-[4-[4-[2-[4-[4-[2-amino-8-hydroxy-3, 6-disulfo-1-naphthalenyl]azo]-3-sulfophenyl]amino]-6-fluoro-1, 3, 5-triazin-2-yl]amino]ethyl] (2-hydroxyethyl)amino]-6-fluoro-1, 3, 5-triazin-2-yl]amino]-2-sulfophenyl]azo]-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

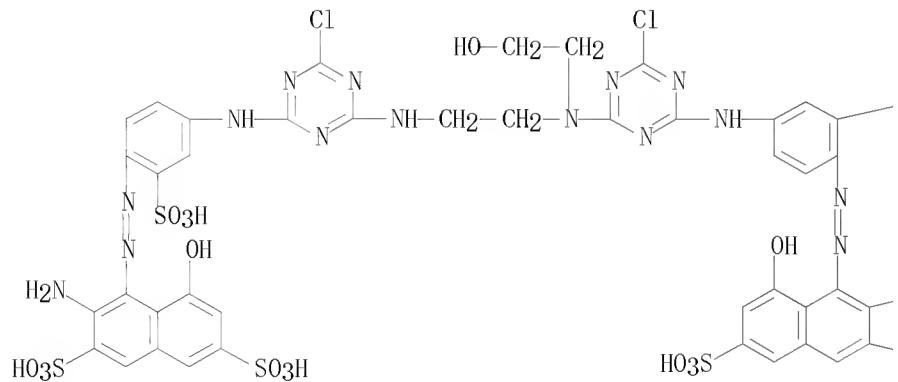


PAGE 1-B

 $\text{--SO}_3\text{H}$ --NH_2 $\text{--SO}_3\text{H}$

RN 848421-24-9 CAPLUS
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PAGE 1-A



PAGE 1-B

 $\text{--SO}_3\text{H}$ --NH_2 $\text{--SO}_3\text{H}$

RE. CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

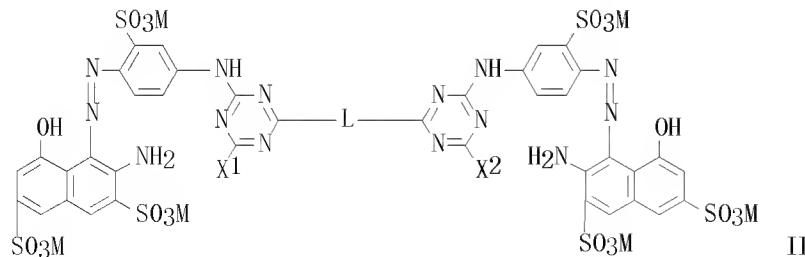
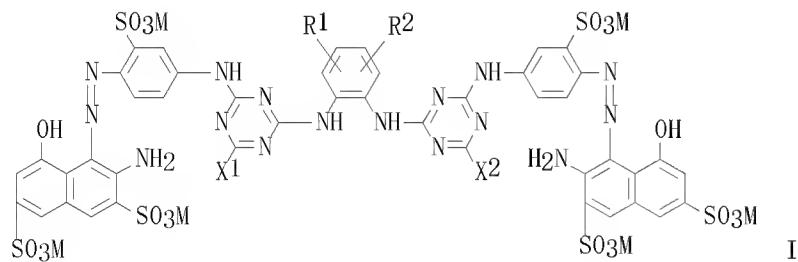
L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:231529 CAPLUS
 DN 142:299400
 TI High light fastness reactive red dyes for dyeing and printing fibers
 IN Russ, Werner; Ebenezer, Warren James; Lawrence, Anthony
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW

DT Patent

LA English

FAN. CNT 1

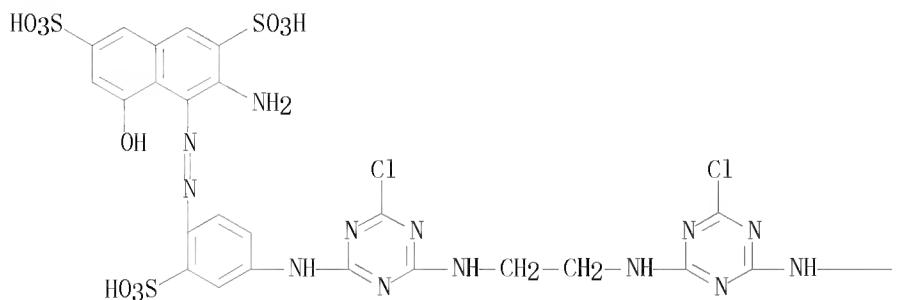
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	AT 355334	T	20060315	AT 2004-20967	20040903
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	US 7026458	B2	20060411		
	CN 1607220	A	20050420	CN 2004-10077027	20040909
	CN 100365073	C	20080130		
	BR 2004003782	A	20050524	BR 2004-3782	20040909
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	KR 2005027059	A	20050317	KR 2004-72480	20040910
	JP 2005089753	A	20050407	JP 2004-264406	20040910
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OS	MARPAT 142:299400				
GI					



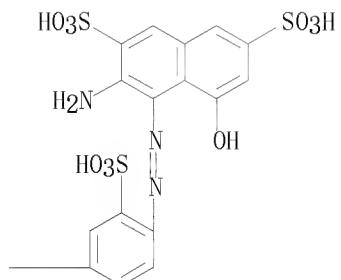
AB The dyes I (R1, R2 = H, C1-4 alkyl; X1, X2 = labile atom or group; and M = H, alkali metal, ammonium ion, alkaline earth metal) and a dye mixture of I and II (X3, X4 = labile atom or group; L = organic linking group; and M = H, alkali metal, ammonium ion or alkaline earth metal) are useful for dyeing and

printing hydroxy- and/or carboxamido-containing fiber materials.
 IT 847687-81-4P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (prepn lightfast reactive red dyes for dyeing and printing fibers)
 RN 847687-81-4 CAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,2-ethanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE. CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2001:194869 CAPLUS
 DN 134:239016
 TI Azo dyes for anticlogging storage-stable jet-printing inks
 IN Sano, Hideo; Yamada, Masahiro
 PA Mitsubishi Chemical Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN. CNT 1
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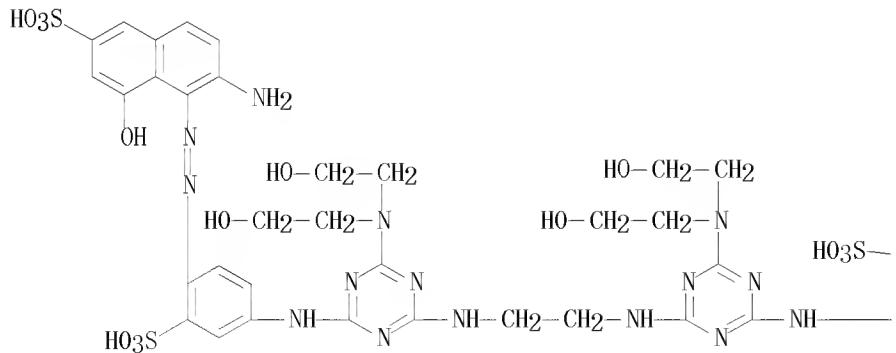
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The dyes, suitable for inks giving printed images with bright magenta color, high resistance to light and water, etc., have free acid structure of I [R₁, R₂ = H, (un)substituted C₁-6 alkyl; R₃-6 = H, (un)substituted C₁-6 alkyl, aryl, C₂-7 acyl; A, B = amine residue; X₁, X₂ = NR₇R₈, OR₉, SR₁₀; R₇-10 = H, (un)substituted C₁-8 alkyl, C₂-6 alkenyl, aryl, aralkyl, cycloalkyl, N-containing heterocyclic group; R₇ and R₈ may be bonded to form a 5- or 6-membered ring with N; Y = divalent group]. Thus, an ink containing II, diethylene glycol, diethylene glycol monobutyl ether, and water was prepared and used in jet printing to give printed paper showing high bleeding resistance in water.

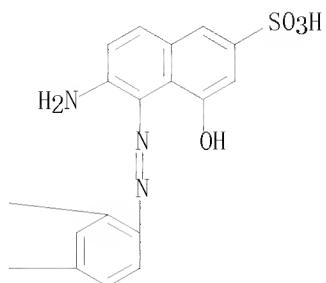
IT 329919-16-6P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (azo dyes for anticlogging storage-stable jet-printing inks)

RN 329919-16-6 CAPLUS
 CN 2-Naphthalenesulfonic acid, 5,5'-[1,2-ethanediylbis[imino[6-[bis(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 329965-83-5

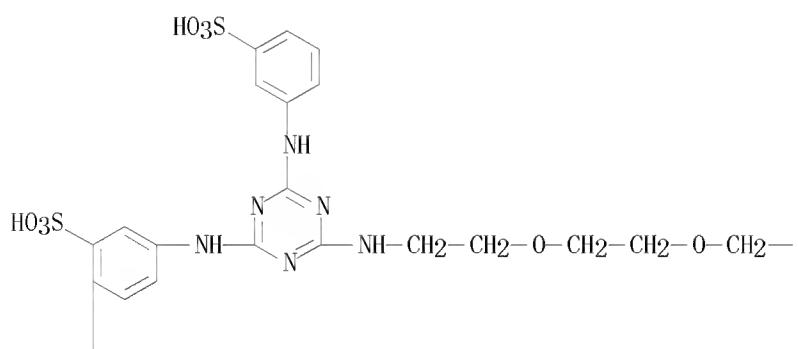
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)

(azo dyes for anticlogging storage-stable jet-printing inks)

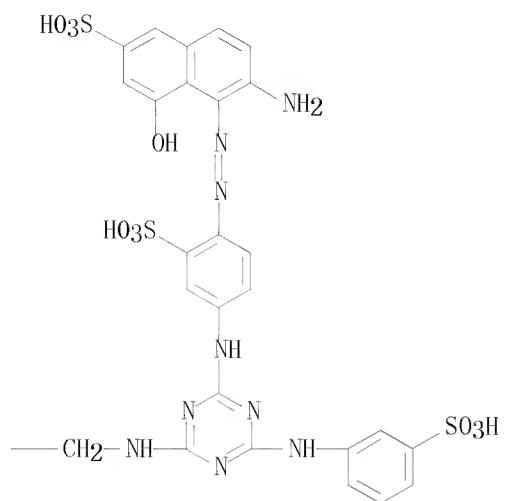
RN 329965-83-5 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-
2,1-ethanediyl)imino[6-[(3-sulfophenyl)amino]-1,3,5-triazine-4,2-
diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, hexolithium
salt (9CI) (CA INDEX NAME)

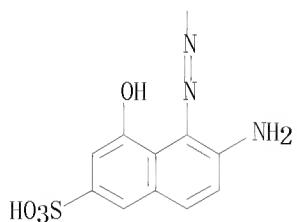
PAGE 1-A



PAGE 1-B



PAGE 2-A



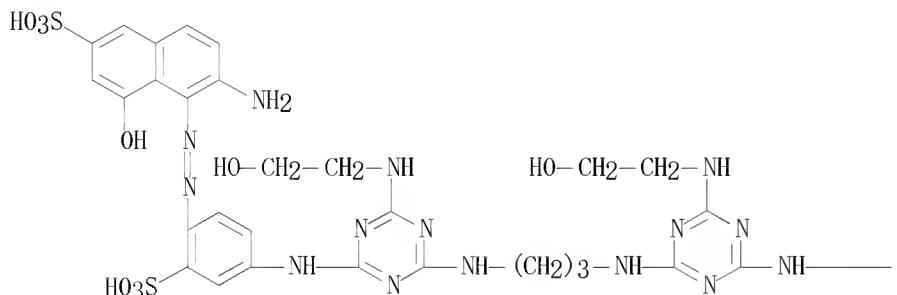
3 (D1-Me)

●6 Li

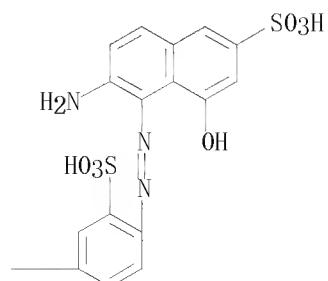
L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:665758 CAPLUS
 DN 131:259012
 TI Ink-jet printing ink compositions and coating compositions for recording sheets
 IN Lavery, Aidan Joseph; Watkinson, Janette
 PA Zeneca Limited, UK; ZSC Specialty Chemicals UK Limited; Avecia Limited
 SO Brit. UK Pat. Appl., 26 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2332438	A	19990623	GB 1998-27475	19981215
	GB 2332438	B	20030319		
	US 6231653	B1	20010515	US 1998-210935	19981215
PRAI	GB 1997-26814	A	19971219		
AB	The ink with improved light-fastness of prints comprises a dye (e.g., C.I. Direct Blue 199), a sugar (e.g., D-glucose), a compound selected from phosphoric acid and a carboxylic acid or their salts (e.g., ascorbic acid), a solvent (e.g. Butyl Carbitol, and glycerol), and optionally a pH buffer. The recording sheet comprises a substrate coated or impregnated on ≥ 1 surface with a coating composition containing a sugar, a compound selected from phosphoric acid and a carboxylic acid or their salts, and optionally a binder.				
IT	223595-74-2P 223595-75-3P 223595-76-4P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (dye; ink-jet printing ink compns.)				
RN	223595-74-2 CAPLUS				
CN	2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[2-hydroxyethyl]amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)				

PAGE 1-A



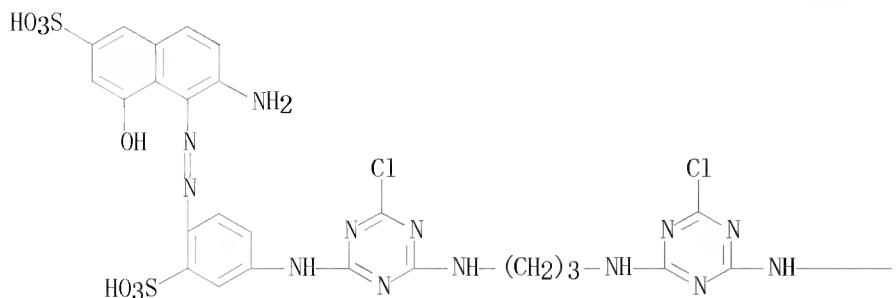
PAGE 1-B



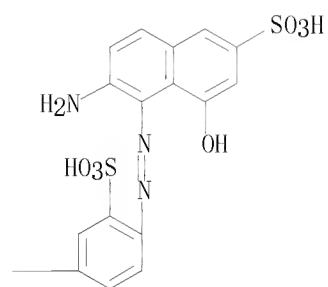
RN 223595-75-3 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-(9CI) (CA INDEX NAME)

PAGE 1-A



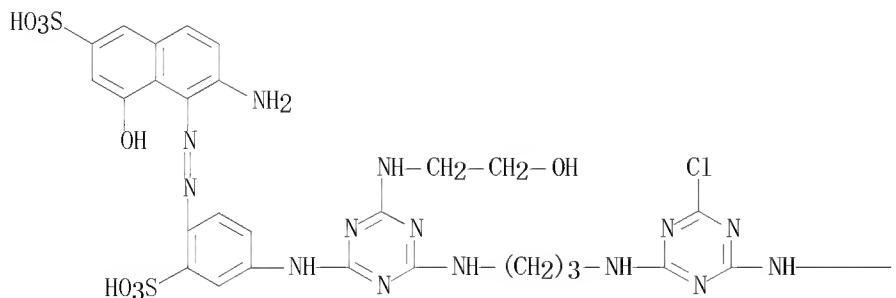
PAGE 1-B



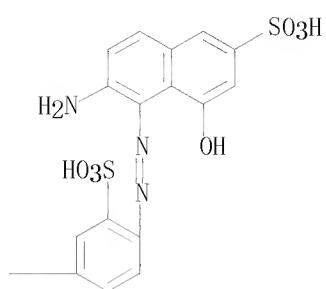
RN 223595-76-4 CAPLUS

CN 2-Naphthalenesulfonic acid, 6-amino-5-[[4-[[4-[[3-[[4-[[4-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-(9CI) (CA INDEX NAME)

PAGE 1-A

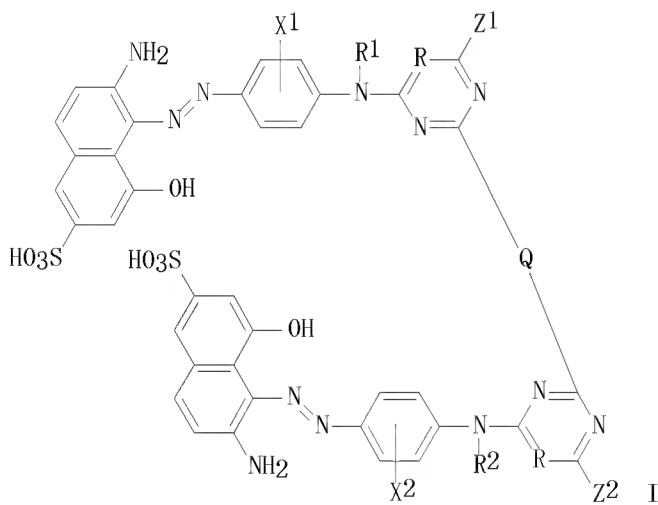


PAGE 1-B



L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:297470 CAPLUS
 DN 130:313186
 TI Disazo dyes for ink jet printing
 IN Robertson, Colin Dick; Carr, Kathryn; Lavery, Aidan Joseph; Wight, Paul;
 Watkinson, Janette
 PA Zeneca Limited, UK
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9921922	A1	19990506	WO 1998-GB2971	19981002
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9892758	A	19990517	AU 1998-92758	19981002
	GB 2346890	A	20000823	GB 2000-7955	19981002
	GB 2346890	B	20020410		
	US 6482255	B1	20021119	US 2000-529810	20000626
PRAI	GB 1997-22396	A	19971024		
	GB 1997-26812	A	19971219		
	WO 1998-GB2971	W	19981002		
OS	MARPAT	130:313186			
GI					



AB The dyes I ($A = N, CCl, CCN, CN_2$; $Q = \text{organic linking group}$; $R1, R2 = H, \text{optionally substituted alkyl}$; $X1, X2 = SO_3H, CO_2H, CF_3, PO_3H_2, \text{optionally substituted alkoxy or alkyl}$; $Z1, Z2 = \text{halogen, ether, thioether, optionally substituted amino}$) and salts and their mixts. are obtained for use in ink jet inks. The inks have good application and fastness properties. In an example, 5-acetamido-2-aminobenzenesulfonic acid \rightarrow 2-amino-8-naphthol-6-sulfonic acid was prepared and condensed with cyanuric chloride and then with 1,3-diaminopropane and ethanolamine

to give I ($A = N$; $Q = NHCH_2CH_2CH_2NH$; $R_1 = R_2 = H$; $X_1 = X_2 = SO_3H$ ortho to azo group; $Z_1 = Z_2 = NHCH_2CH_2OH$). This magenta dye gave prints with good optical d. and light fastness.

IT 223595-77-5P 223595-78-6P 223595-79-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye mixture; production of disazo dye compns. for jet printing inks)

RN 223595-77-5 CAPLUS

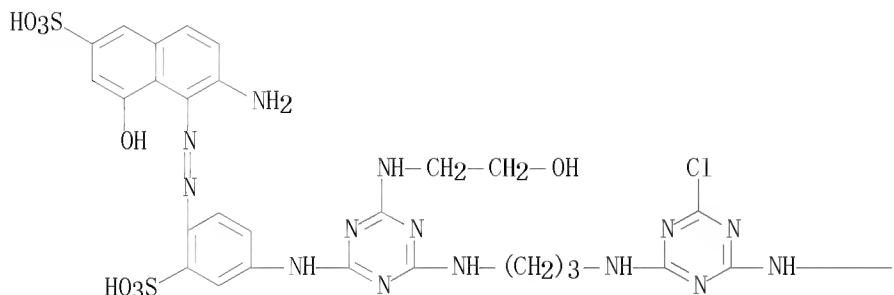
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenyleneazo)]bis[6-amino-4-hydroxy-, mixt. with 6-amino-5-[4-[4-[4-[3-[4-[4-[2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-2-naphthalenesulfonic acid and 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenyleneazo)]bis[6-amino-4-hydroxy-2-naphthalenesulfonic acid]] (9C1) (CA INDEX NAME)

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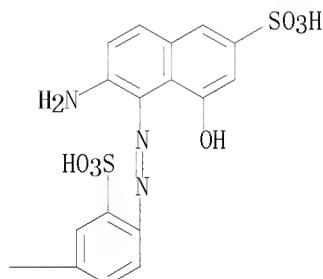
CRN 223595-76-4

CMF C43 H40 C1 N17 O15 S4

PAGE 1-A



PAGE 1-B

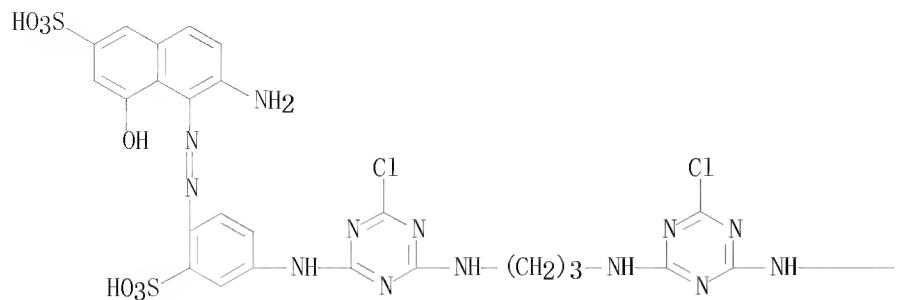


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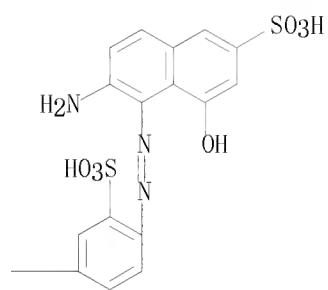
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CMF C41 H34 C12 N16 014 S4

PAGE 1-A



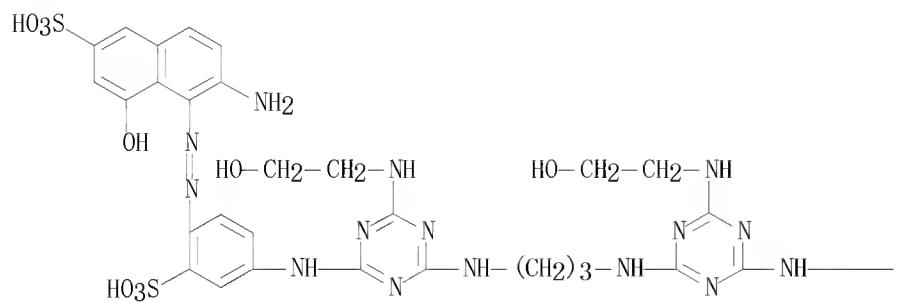
PAGE 1-B



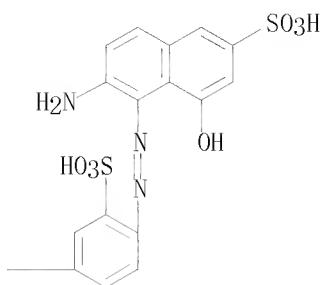
CM 3

CRN 223595-74-2
 CMF C45 H46 N18 O16 S4

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RN 223595-78-6 CAPLUS

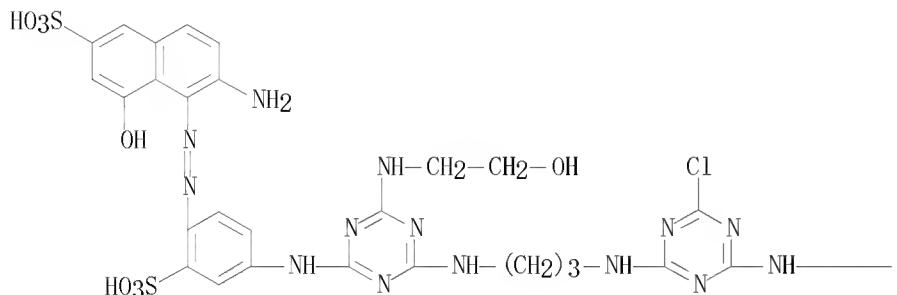
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 6-amino-5-[[4-[[4-[[3-[[4-[[4-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-2-naphthalenesulfonic acid (9CI) (CA INDEX NAME)

CM 1

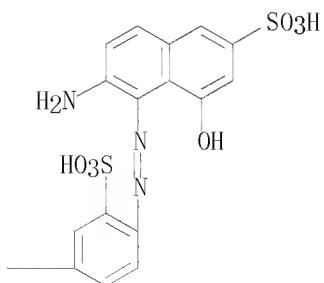
CRN 223595-76-4

CMF C43 H40 Cl N17 O15 S4

PAGE 1-A



PAGE 1-B

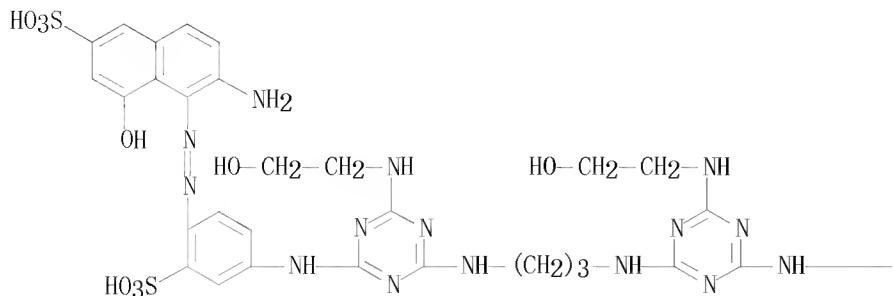


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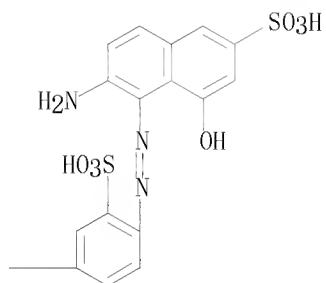
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

PAGE 1-A



PAGE 1-B



RN 223595-79-7 CAPLUS

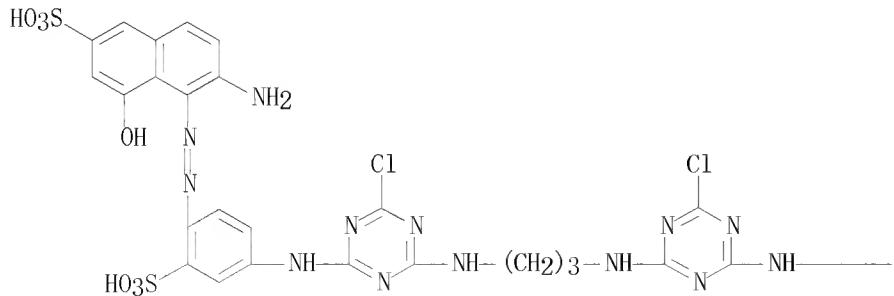
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-2-naphthalenesulfonic acid] (9CI) (CA INDEX NAME)

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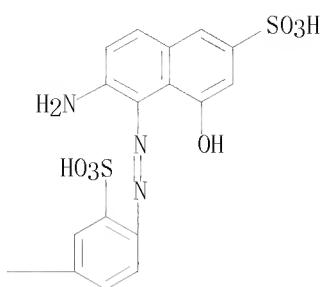
CRN 223595-75-3

CMF C41 H34 Cl2 N16 O14 S4

PAGE 1-A



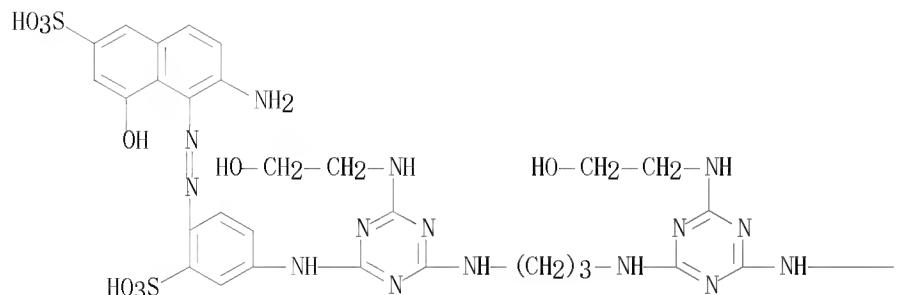
PAGE 1-B



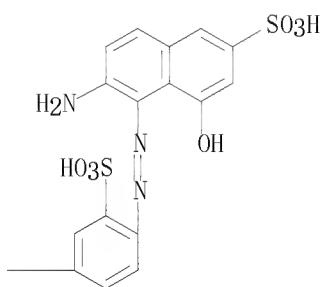
CM 2

CRN 223595-74-2
CMF C45 H46 N18 O16 S4

PAGE 1-A



PAGE 1-B

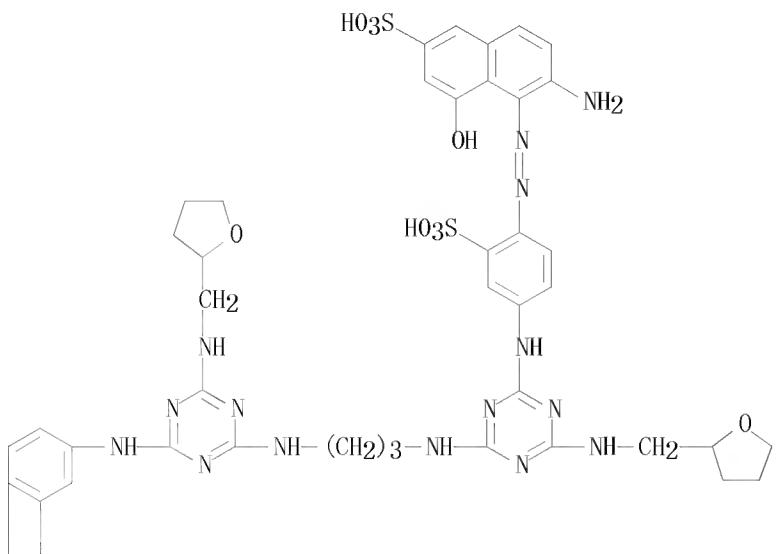


IT 223595-80-0
RL: TEM (Technical or engineered material use); USES (Uses)
(dye; disazo dyes for jet printing inks)

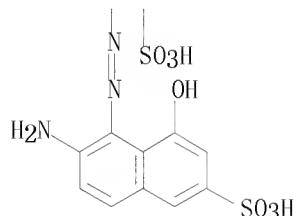
RN 223595-80-0 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(tetrahydro-2-furanyl)methyl]amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

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PAGE 2-A



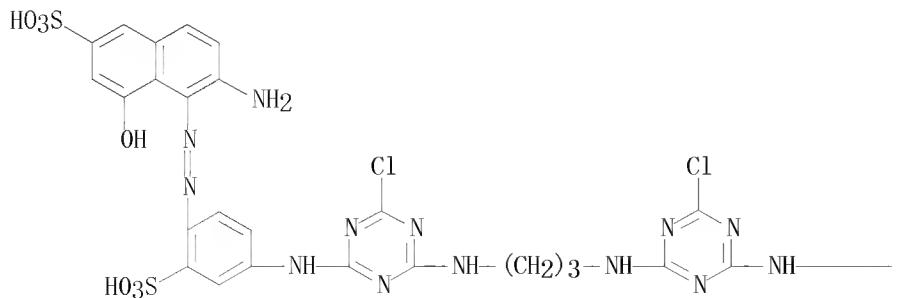
IT 223595-75-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dye; production of disazo dyes for jet printing inks)

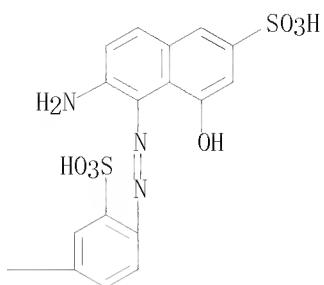
RN 223595-75-3 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



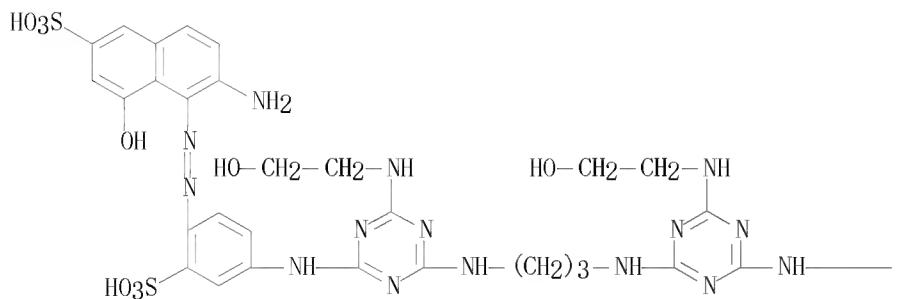
IT 223595-74-2P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(magenta dye; production of disazo dyes for jet printing inks)

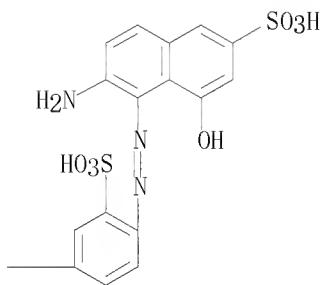
RN 223595-74-2 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE. CNT 5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:171898 CAPLUS
 DN 124:204938
 OREF 124:37853a, 37856a

TI Anionic acid azo direct dyes, their preparation, their mixtures, and their use

IN Lauk, Urs
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 71 pp.
 CODEN: EPXXDW

DT Patent
 LA German

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 693538	A2	19960124	EP 1995-810387	19950612
	EP 693538	A3	19960605		
	EP 693538	B1	20010822		
	R: BE, CH, DE, ES, FR, GB, GR, IT, LI, PT				
	US 5631352	A	19970520	US 1995-460174	19950602
	ES 2161847	T3	20011216	ES 1995-810387	19950612
	PT 693538	T	20020130	PT 1995-810387	19950612
	JP 08003469	A	19960109	JP 1995-146285	19950613
	JP 3970946	B2	20070905		
	CN 1133323	A	19961016	CN 1995-107363	19950619
	CN 1066178	C	20010523		
	BR 9502861	A	19960604	BR 1995-2861	19950620
	GR 3036651	T3	20011231	GR 2001-401509	20010918

PRAI CH 1994-1952 A 19940620

OS MARPAT 124:204938

AB Mixts. of ≥ 1 azo dye containing 1 or 2 aminotriazine groups with ≥ 1 azo dye containing 2 aminotriazine groups are direct dyes for cellulosics. They are high-temperature-stable and are especially suited for 1-bath dyeing of polyester/cotton with incorporation of a polyester disperse dye under polyester dyeing conditions. Thus, 1 mol cyanuric chloride was condensed with 2 mol 7-amino-4-hydroxy-3-(4-methoxy-2-sulfophenylazo)-2-naphthalenesulfonic acid and then with 1 mol 1,3-diaminopropane to provide an aminotriazine disazo dye which dyed cotton in fast red shades. The dye could also be combined with another azo dye for application.

IT 174571-97-2 174571-99-4

RL: TEM (Technical or engineered material use); USES (Uses)
 (anionic acid azo direct dye mixts. for dyeing of cellulosics)

RN 174571-97-2 CAPLUS

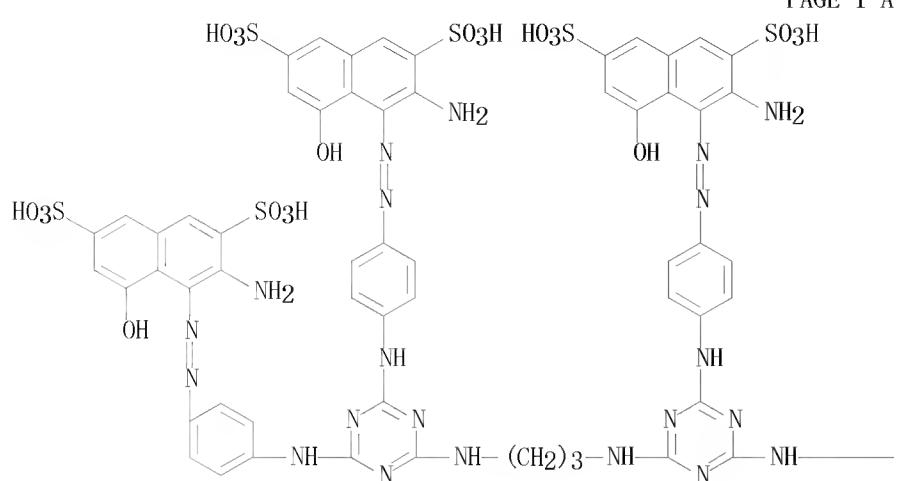
CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis[imino-1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo)]]tetrakis[3-amino-5-hydroxy-, mixt. with 4,4'-[[6-[(3-aminopropyl)amino]-1,3,5-triazine-2,4-diyl]bis(imino-4,1-phenyleneazo)]bis[3-amino-5-hydroxy-2,7-naphthalenedisulfonic acid]] (9CI) (CA INDEX NAME)

CM 1

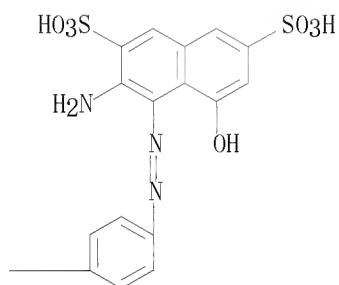
CRN 174571-96-1

CMF C73 H60 N24 O28 S8

PAGE 1-A

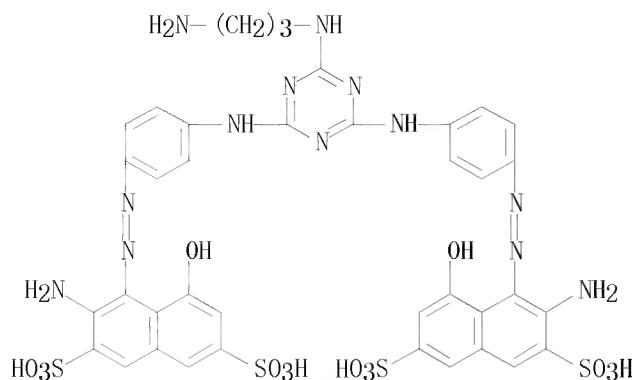


PAGE 1-B



CM 2

CRN 174571-95-0
CMF C38 H35 N13 O14 S4



RN 174571-99-4 CAPLUS

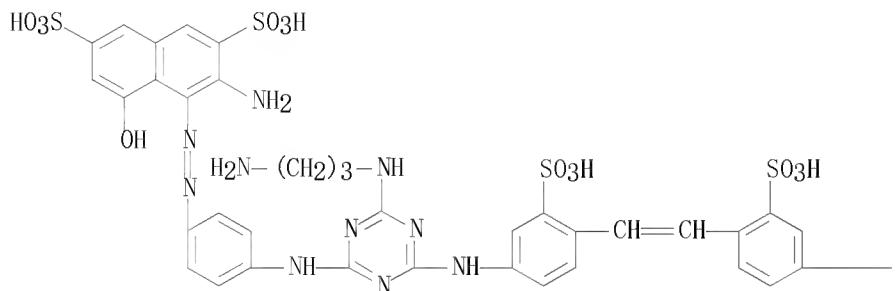
CN 2, 7-Naphthalenedisulfonic acid, 4, 4', 4'', 4'''-[1, 3-propanediylbis[imino-1, 3, 5-triazine-6, 2, 4-triylbis(imino-4, 1-phenyleneazo)]]]tetrakis[3-amino-5-hydroxy-, mixt. with 4, 4'-[1, 2-ethenediylbis[(3-sulfo-4, 1-phenylene)imino[6-[(3-aminopropyl)amino]-1, 3, 5-triazine-4, 2-diyl]imino-4, 1-phenyleneazo]]bis[3-amino-5-hydroxy-2, 7-naphthalenedisulfonic acid] (9CI) (CA INDEX NAME)

CM 1

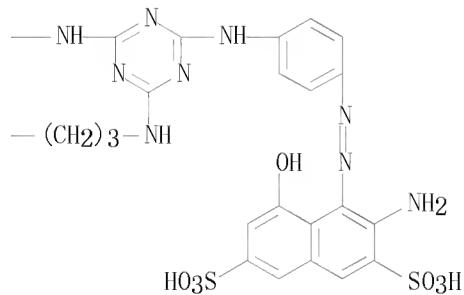
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CMF C58 H56 N20 O20 S6

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PAGE 1-B

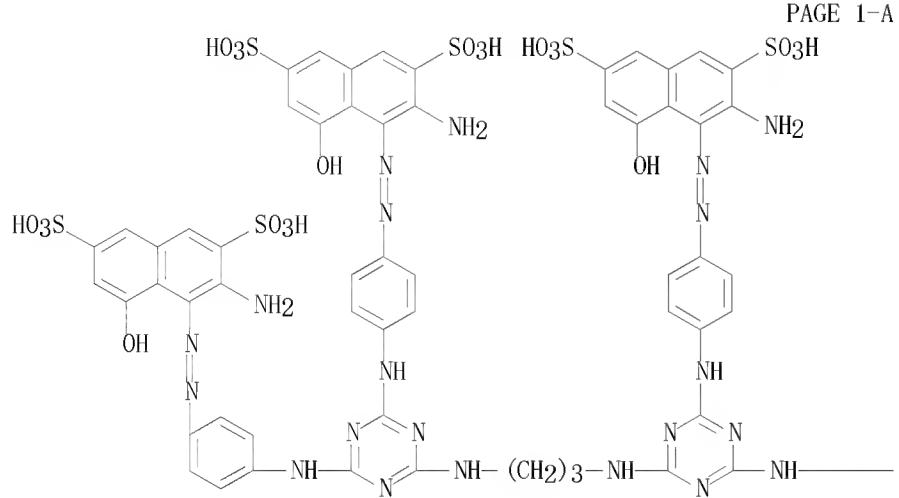


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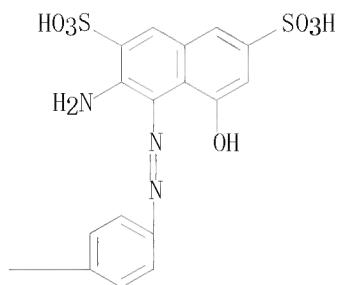
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CMF C73 H60 N24 O28 S8

PAGE 1-A



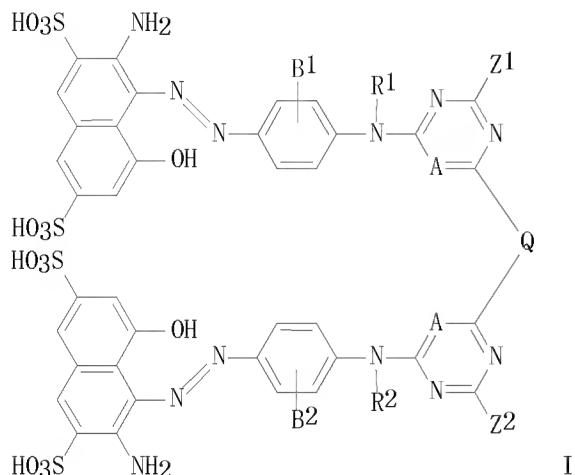
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=> s gb2331757/pn
L7 1 GB2331757/PN

=> d bib abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:588885 CAPLUS
 DN 131:186218
 TI Bis[4-(2-amino-8-hydroxy-3,6-disulfo-1-naphthylazo)anilino]pyrimidinyl]
 or -1,3,5-triazinyl] dyes and their use in ink-jet inks
 IN Carr, Kathryn
 PA Zeneca Limited, UK
 SO Brit. UK Pat. Appl., 28 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN. CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 PI GB 2331757 A 19990602 GB 1998-25225 19981118 <--
 GB 2331757 B 20020925
 PRAI GB 1997-24975 A 19971127
 OS MARPAT 131:186218
 GI



AB Storage-stable, rapid-drying, lightfast, water-resistant dyes have the structure I [each A = N, CC1, CCN, CN02; B1, B2 = (un)substituted alkyl or alkoxy, S03H, C02H, CF3, P03H2; Q = organic group; R1, R2 = H, (un)substituted alkyl; Z1, Z2 = SR3, OR4, NR5R6, labile atom or group; R3-R6 = H, (un)substituted alkyl or aryl or aralkyl, or NR5R6 = 5- or 6-membered heterocyclyl] or its salts. Thus, 4,2-AcNH(HO3S)C6H3NH2 was diazotized and coupled with 3,5-H2N(HO)C10H4(SO3H)2-2, 7, the product was deacetylated and condensed 1:1 with cyanuric chloride, and the dichlorotriazine was condensed first with p-phenylenediamine and then with HS(CH2)3S03H to give a I, a 2% solution of which in 10% aqueous pyrrolidinone applied to glossy paper by ink-jet printing gave a bright magenta print with optical d. 1.67, which decreased by 9% after 64 h exposure in a weatherometer.

=> sel 17 1 rn
E1 THROUGH E6 ASSIGNED

=> fil reg
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DICTIONARY FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

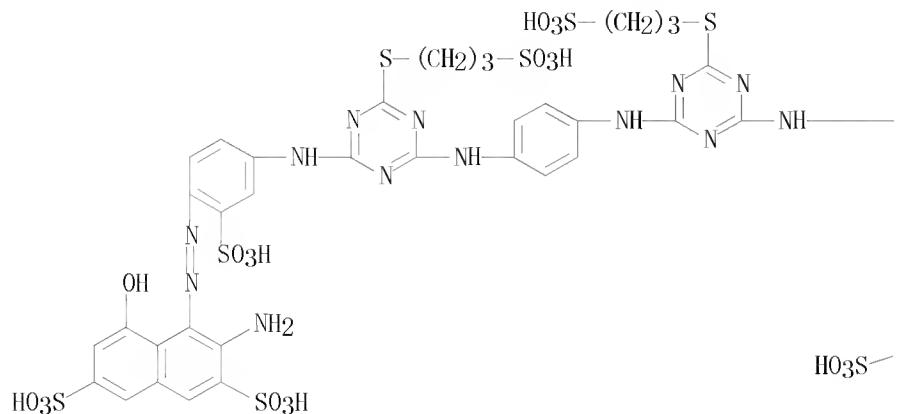
<http://www.cas.org/support/stngen/stndoc/properties.html>

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1 106-50-3/BI
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1 108-77-0/BI
(108-77-0/RN)
1 240422-25-7/BI
(240422-25-7/RN)
1 49594-30-1/BI
(49594-30-1/RN)
1 90-40-4/BI
(90-40-4/RN)
1 96-78-6/BI
(96-78-6/RN)
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OR 90-40-4/BI OR 96-78-6/BI)

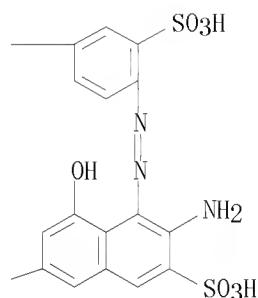
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L8 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 240422-25-7 REGISTRY
 ED Entered STN: 21 Sep 1999
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 MF C50 H46 N16 O26 S10
 SR CA
 LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 1-B

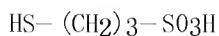


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:186218

L8 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
RN 49594-30-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Propanesulfonic acid, 3-mercaptop- (CA INDEX NAME)
OTHER NAMES:
CN 3-Mercapto-1-propanesulfonic acid
CN 3-Mercaptopropylsulfonic acid
MF C3 H8 O3 S2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2,
USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

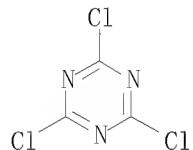


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29 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
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REFERENCE 2: 150:408376
REFERENCE 3: 150:301158
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REFERENCE 6: 150:231473
REFERENCE 7: 150:131036
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REFERENCE 9: 150:50264
REFERENCE 10: 149:501837

L8 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
RN 108-77-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,3,5-Triazine, 2,4,6-trichloro- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN s-Triazine, 2,4,6-trichloro- (8CI)
OTHER NAMES:
CN 1,3,5-Trichloro-2,4,6-triazine
CN 1,3,5-Trichlorotriazine
CN 2,4,6-Trichloro-1,3,5-triazine
CN 2,4,6-Trichloro-s-triazine
CN 2,4,6-Trichloro-sym-triazine
CN 2,4,6-Trichlorotriazine
CN Cyanur chloride
CN Cyanuric chloride
CN Cyanuric trichloride
CN Cyanuryl chloride
CN Isocyanuric trichloride
CN NSC 3512
CN s-Triazine trichloride
CN Solgel W 08
CN sym-Trichlorotriazine
CN Trichloro-s-triazine
CN Trichlorocyanidine
CN Zoruguru W 08
DR 190086-22-7
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CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
CSNB, DETHERM*, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
MEDLINE, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE,
TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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413 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6097 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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REFERENCE	5:	150:500573
REFERENCE	6:	150:496207
REFERENCE	7:	150:494600

REFERENCE 8: 150:489958

REFERENCE 9: 150:489687

REFERENCE 10: 150:483652

L8 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 106-50-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,4-Benzenediamine (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN p-Phenylenediamine (8CI)

OTHER NAMES:

CN (4-Aminophenyl)amine

CN 1,4-Diaminobenzene

CN 1,4-Diaminobenzol

CN 1,4-Phenylenediamine

CN 4-Aminoaniline

CN BASF Ursol D

CN Benzofur D

CN Black for Fur D

CN C.I. 76060

CN C.I. Developer 13

CN C.I. Oxidation Base 10

CN Developer PF

CN Durafur Black R

CN Fouramine D

CN Fourrine 1

CN Fourrine D

CN Fur Black 41867

CN Fur Brown 41866

CN Fur Yellow

CN Furro D

CN Futramine D

CN Nako H

CN NSC 4777

CN Orsin

CN p-Aminoaniline

CN p-Benzenediamine

CN p-Diaminobenzene

CN Pelagol D

CN Pelagol DR

CN Pelagol Grey D

CN Peltol D

CN PPD

CN Renal PF

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CN Tertral D

CN Ursol D

CN Zoba Black D

DR 56481-76-6

MF C6 H8 N2

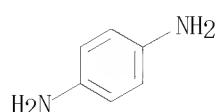
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(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

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1016 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9589 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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REFERENCE 3: 150:500558

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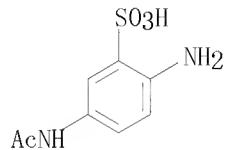
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REFERENCE 9: 150:495594

REFERENCE 10: 150:495588

L8 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 96-78-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzenesulfonic acid, 5-(acetylamino)-2-amino- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzenesulfonic acid, 5-acetamido-2-amino- (7CI, 8CI)
 OTHER NAMES:
 CN 2-Amino-5-(acetylamino)benzenesulfonic acid
 CN 4-(Acetylamino)aniline-2-sulfonic acid
 CN 4-Acetamido-2-sulfoaniline
 CN 4-Amino-3-sulfoacetanilide
 CN 4-Aminoacetanilide-3-sulfonic acid
 CN 5-Acetamido-2-aminobenzenesulfonic acid
 CN 5-Acetamidoorthanilic acid
 CN 5-Acetylaminooxybenzene-1-sulfonic acid
 CN N4-Acetyl-2-sulfo-p-phenylenediamine
 CN NSC 36988
 MF C8 H10 N2 O4 S
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,
 IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
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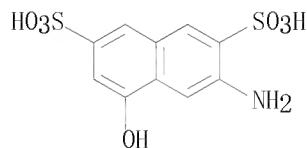


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 89 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 REFERENCE 2: 148:519040
 REFERENCE 3: 147:428853
 REFERENCE 4: 146:381968
 REFERENCE 5: 144:494624
 REFERENCE 6: 144:313695
 REFERENCE 7: 143:388711
 REFERENCE 8: 143:388584
 REFERENCE 9: 143:287906
 REFERENCE 10: 143:28079

L8 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
RN 90-40-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,7-Naphthalenedisulfonic acid, 3-amino-5-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Naphthol-3,6-disulfonic acid, 7-amino- (6CI)
OTHER NAMES:
CN 1-Hydroxy-3,6-disulfo-7-aminonaphthalene
CN 2-Amino-8-hydroxynaphthalene-3,6-disulfonic acid
CN 2-Amino-8-naphthol-3,6-disulfonic acid
CN 2R acid
CN 3-Amino-5-hydroxy-2,7-naphthalenedisulfonic acid
CN 6-Amino-4-naphthol-2,7-disulfonic acid
CN 7-Amino-1-hydroxy-3,6-naphthalenedisulfonic acid
CN 7-Amino-1-naphthol-3,6-disulfonic acid
CN Gamma disulfo acid
CN NSC 10435
CN NSC 7560
CN RR acid
MF C10 H9 N 07 S2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,
IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
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138 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
139 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 150:495340
REFERENCE 2: 150:36772
REFERENCE 3: 149:269519
REFERENCE 4: 148:549287
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REFERENCE 7: 146:467403
REFERENCE 8: 146:64312
REFERENCE 9: 145:212793
REFERENCE 10: 144:313695

=> d his full

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FILE 'REGISTRY' ENTERED AT 17:58:56 ON 30 MAY 2009

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L2 2 SEA SSS SAM L1
D SCAN
L3 26 SEA SSS FUL L1
L4 23 SEA ABB=ON PLU=ON L3 AND CAPLUS/LC
L5 3 SEA ABB=ON PLU=ON L3 NOT L4
D 1-3 IDE CAN

FILE 'CAPLUS' ENTERED AT 18:01:30 ON 30 MAY 2009

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D 1-6 BIB ABS HITSTR
L7 1 SEA ABB=ON PLU=ON GB2331757/PN
D BIB ABS
SEL L7 1 RN

FILE 'REGISTRY' ENTERED AT 18:07:02 ON 30 MAY 2009

L8 6 SEA ABB=ON PLU=ON (106-50-3/B1 OR 108-77-0/B1 OR 240422-25-7/
B1 OR 49594-30-1/B1 OR 90-40-4/B1 OR 96-78-6/B1)
D 1-6 IDE CAN

FILE HOME

FILE REGISTRY

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DICTIONARY FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1

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FILE CAPLUS

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FILE COVERS 1907 - 30 May 2009 VOL 150 ISS 23

FILE LAST UPDATED: 29 May 2009 (20090529/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

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